



PROJECT HIGHLIGHTS

- Upgrade doubled treatment capacity of existing sludge digesters
- Construction of new digesters could be deferred by 10 years
- \$3 million construction cost savings

Pukete Wastewater Treatment Plant Upgrade

HAMILTON, NEW ZEALAND

CLIENT: Hamilton City Council
PROJECT VALUE: \$3.5 million

PROJECT OVERVIEW

Hamilton City Council wanted to upgrade the Pukete plant sludge digester system, to have adequate treatment capacity for the increasing treatment plant sludge inflows over the next decade. An additional requirement for Council was to achieve digester tank redundancy. This redundancy would allow Council to safely operate the Pukete plant when one digester was taken out of service for maintenance or repairs.

Calibre Consulting's Waste Value Recovery Consultant advised Council on effective solutions for digester mixing and solids handling, which doubled the capacity of each of the existing digester tanks without construction of new digesters. This generated the required digester tank redundancy and resulted in a \$3 million digester construction cost savings.

SCOPE OF SERVICES

Calibre Consulting provided the concept design, process design, preliminary design and commissioning support. Calibre Consulting designed and priced the wastewater plant digester capacity upgrade, doubling the municipal sludge treatment capacity by adding "smart" process technology and improving the treatment performance of the existing digesters. Our designs reduced costs by increasing the load and delaying the need for a new digester.